

## **LISTING OF THE CLAIMS**

*This listing of claims replaces all prior versions and listings of claims in the application:*

- 1. (Currently Amended)** A lighting apparatus using microwave energy, comprising:  
a casing;  
a reflector fixed to an outer surface of the casing;  
a magnetron disposed inside a casing, for generating microwave energy;  
a waveguide for guiding microwave energy;  
a resonator disposed inside the reflector and providing a resonant region in which the microwave energy is resonated;  
a bulb having a stem disposed inside the resonator, and filled with a material which emits light[[,]] when excited by the microwave energy; and  
a rear mirror integrally fixed to the bulb stem and integrally rotatable together with the bulb when the bulb is rotated, for forwardly reflecting light rearwardly emitted from the bulb.
- 2. (Original)** The apparatus of claim 1, wherein the rear mirror is formed in a hemispherical shape having a curved shape.
- 3. (Original)** The apparatus of claim 2, wherein the bulb is positioned at a focal point of the curved surface of the rear mirror.
- 4. (Original)** The apparatus of claim 1, wherein the rear mirror is made of a quartz material.
- 5. (Original)** The apparatus of claim 1, further comprising a fixed mirror fixed to the casing at a rear side of the bulb and having a hole in which a bulb stem rearwardly extended from the bulb is rotatably inserted, for forwardly reflecting light emitted to the rear of the bulb.

6. **(Original)** The apparatus of claim 5, wherein a diameter of the hole of the fixed mirror is formed to be smaller than a width of the rear mirror.

7. **(Original)** The apparatus of claim 5, wherein the fixed mirror is formed in a hemispherical shape having a curved shape.

8. **(Original)** The apparatus of claim 7, wherein the bulb is positioned at a focal point of the curved surface of the fixed mirror.

9. **(Original)** The apparatus of claim 5, wherein the rear mirror is formed in a hemispherical shape having a curved shape.

10. **(Original)** The apparatus of claim 9, wherein the bulb is positioned at a focal point of the curved surface of the rear mirror.

11. **(Original)** The apparatus of claim 5, wherein the rear mirror is made of a quartz material.

12. **(Original)** The apparatus of claim 5, wherein the fixed mirror is made of a ceramic material.

13. **(Original)** The apparatus of claim 12, wherein the fixed mirror is made of an  $\text{Al}_2\text{O}_3$ ,  $\text{Si}_3\text{N}_4$  or  $\text{AlN}$  material.